

Application No.: 09/657,431
Supplemental Resp to OA of 11/16/04

2

Docket No.: 500862001400

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (previously amended): A modified antiangiogenic peptide comprising a kringle 5 peptide and a reactive group which reacts with amino groups, hydroxyl groups, or thiol groups on blood components to form stable covalent bonds wherein said reactive group is selected from the group consisting of succinimidyl and maleimido groups.

Claim 2 (cancelled)

Claim 3 (previously amended): The modified peptide of claim 1 wherein the modified peptide is reactive with blood proteins.

Claim 4 (previously presented): The modified peptide of claim 3, wherein the modified peptide is reactive with a thiol group on a blood protein.

Claim 5 (currently amended): The modified peptide of claim 1 wherein the [modified] kringle 5 peptide is selected from the group consisting of SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, and SEQ ID NO:9.

Claim 6 (currently amended): The modified peptide of claim 1 wherein the [modified] kringle 5 peptide is selected from the group consisting of SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15 and SEQ ID NO:16.

Claims 7-9 (cancelled)

sf-1847317

Application No.: 09/657,431
Supplemental Resp to OA of 11/16/04

3

Docket No.: 500862001400

Claim 10 (previously presented): A modified kringle 5 peptide comprising a kringle 5 peptide and a maleimido group which reacts with a thiol group on human serum albumin to form a covalent bond.

Claim 11 (previously presented): The modified kringle 5 peptide of claim 10, wherein said kringle 5 peptide is selected from SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8 and SEQ ID NO:9.

Claim 12 (previously presented): The modified kringle 5 peptide of claim 10, wherein said kringle 5 peptide is selected from SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15 and SEQ ID NO:16.

Claims 13-18 (cancelled)

Claim 19 (original): A modified kringle 5 peptide selected from the group consisting of NAc-Pro-Arg-Lys-Leu-Tyr-Asp-Lys-NH₂; NAc-Arg-Lys-Leu-Tyr-Asp-Tyr-Lys-NH₂; Nac-Tyr-Thr-Thr-Asn-Pro-Arg-Lys-Leu-Tyr-Asp-Tyr-Lys-NH₂; NAc-Arg-Asn-Pro-Asp-Gly-Asp-Val-Gly-Gly-Pro-Trp-Ala-Tyr-Thr-Thr-Asn-Pro-Arg-Lys-Leu-Tyr-Asp-Tyr-Lys-NH₂; NAc-Arg-Asn-Pro-Asp-Gly-Asp-Val-Gly-Gly-Pro-Trp-Lys-NH₂; NAc-Pro-Arg-Lys-Leu-Tyr-Asp-Tyr-Lys-(Nε-MPA)-NH₂; (MPA-AEEA)-Pro-Arg-Lys-Leu-Tyr-Asp-Tyr-NH₂ and (MPA)-Pro-Arg-Lys-Leu-Tyr-Asp-Tyr-NH₂.

af-1847317

Application No.: 09/657,431
Supplemental Resp to OA of 11/16/04

4

Docket No.: 500862001400

Claim 20 (original): A modified kringle 5 peptide selected from the group consisting of: NAc-Tyr-Thr-Thr-Asn-Pro-Arg-Lys-Leu-Tyr-Asp-Tyr-Lys-($\text{N}\varepsilon$ -MPA)-NH₂; (MPA-AEEA)-Tyr-Thr-Thr-Asn-Pro-Arg-Lys-Leu-Tyr-Asp-Tyr-NH₂; (MPA)-Tyr-Thr-Thr-Asn-Pro-Arg-Lys-Leu-Tyr-Asp-Tyr-NH₂;
NAc-Arg-Asn-Pro-Asp-Gly-Asp-Val-Gly-Gly-Pro-Trp-Ala-Tyr-Thr-Asn-Pro-Arg-Lys-Leu-Tyr-Asp-Tyr-Lys-($\text{N}\varepsilon$ -MPA)-NH₂;
(MPA-AEEA)-Arg-Asn-Pro-Asp-Gly-Asp-Val-Gly-Gly-Pro-Trp-Ala-Tyr-Thr-Asn-Pro-Arg-Lys-Leu-Tyr-Asp-Tyr-NH₂; and
(MPA)-Arg-Asn-Pro-Asp-Gly-Asp-Val-Gly-Gly-Pro-Trp-Ala-Tyr-Thr-Asn-Pro-Arg-Lys-Leu-Tyr-Asp-Tyr-NH₂.

Claim 21 (previously presented): A modified kringle 5 peptide selected from the group consisting of NAc-Arg-Asn-Pro-Asp-Gly-Asp-Val-Gly-Gly-Pro-Trp-Lys-($\text{N}\varepsilon$ -MPA)-NH₂; (MPA-AEEA)-Arg-Asn-Pro-Asp-Gly-Asp-Val-Gly-Gly-Pro-Trp-NH₂;
(MPA)-Arg-Asn-Pro-Asp-Gly-Asp-Val-Gly-Gly-Pro-Trp-NH₂;
NAc-Arg-Lys-Leu-Tyr-Asp-Tyr-Lys-($\text{N}\varepsilon$ -MPA)-NH₂;
(MPA-AEEA)-Arg-Lys-Leu-Tyr-Asp-Tyr-NH₂;
(MPA)-Arg-Lys-Leu-Tyr-Asp-Tyr-NH₂;
NAc-Pro-Arg-Lys-Leu-Tyr-Asp-Lys-($\text{N}\varepsilon$ -MPA)-NH₂;
(MPA-AEEA)-Pro-Arg-Lys-Leu-Tyr-Asp-NH₂;
(MPA)-Pro-Arg-Lys-Leu-Tyr-Asp-NH₂;
NAc-Pro-Arg-Lys-Leu-Tyr-Asp-Tyr-Lys-($\text{N}\varepsilon$ -AEEA-MPA)-NH₂; and
NAc-Pro-Arg-Lys-Leu-Tyr-Asp-Tyr-Lys-($\text{N}\varepsilon$ -AEEA_n-MPA)-NH₂.

af-1847317